

Title (en)

IMPROVED WELDABLE ALUMINUM STUD

Title (de)

VERBESSERTER, SCHWEISSBARER ALUMINIUMBOLZEN

Title (fr)

GOUJON EN ALUMINIUM AMELIORE POUVANT ETRE SOUDE

Publication

**EP 1151205 A4 20030129 (EN)**

Application

**EP 99964138 A 19991207**

Priority

- DE 19856613 A 19981208
- US 9928950 W 19991207

Abstract (en)

[origin: EP1008416A1] The invention relates to a weld-on part made of aluminium or an aluminium alloy, which has a surface which is at least partially provided with a coating which preferably mainly contains titanium zirconium. <IMAGE>

IPC 1-7

**F16B 37/06**; **C23C 22/48**; **B23K 9/20**; **B23K 35/02**

IPC 8 full level

**B23K 9/20** (2006.01); **B23K 9/23** (2006.01); **B23K 35/02** (2006.01); **C23C 22/56** (2006.01); **F16B 33/06** (2006.01); **F16B 35/04** (2006.01); **B23K 35/00** (2006.01); **B23K 35/28** (2006.01)

CPC (source: EP)

**B23K 9/20** (2013.01); **B23K 35/0288** (2013.01); **B23K 35/002** (2013.01); **B23K 35/286** (2013.01)

Citation (search report)

- [XA] US 4684304 A 19870804 - FRANKS THEODORE E [US]
- [X] US 5584946 A 19961217 - KARMASCHEK UWE [DE], et al
- [X] US 5618491 A 19970408 - KURUP MOHAN [US], et al
- [A] DE 4401881 A1 19950727 - TRW NELSON BOLZENSCHWEISSTECHN [DE]
- See references of WO 0034672A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**EP 1008416 A1 20000614**; AU 2044300 A 20000626; DE 19856613 A1 20000615; EP 1151205 A1 20011107; EP 1151205 A4 20030129; EP 1151205 B1 20130814; JP 2002531276 A 20020924; JP 4778615 B2 20110921; WO 0034672 A1 20000615; WO 0034672 B1 20000720

DOCDB simple family (application)

**EP 99308898 A 19991109**; AU 2044300 A 19991207; DE 19856613 A 19981208; EP 99964138 A 19991207; JP 2000587094 A 19991207; US 9928950 W 19991207